



## Safety data sheet

According to 91/155 EEC

Printing date 21.06.2011

Revision: 21.06.2011

### 1 Identification of the substance/mixture and of the company/undertaking

- **Product identifier**
- **Trade name:** FUEL SYSTEM CLEANER
- **Article number:** 540
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the preparation**  
Cleans the entire fuel system from the tank forward to the carburettor or fuel injectors.
- **Details of the supplier of the safety data sheet**
- **Further information obtainable from:**  
Wynn`s South Africa  
702 Main Pretoria Road  
Wynberg  
Sandton  
2090  
SOUTH AFRICA  
Tel: 2711 786 9070  
Fax: 2711 786 9069
- **Emergency telephone number:** Tel: 2711 786 9070

### 2 Composition/information on ingredients

- **Chemical characterization:** Mixtures
- **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**

75-09-2	dichloromethane	Xn R40 H351	25-30%
71-23-8	propan-1-ol	Xi R41;  F R11 R67 H225;  H318;  H336	20-30%
67-56-1	methanol	T R23/24/25-39/23/24/25;  F R11 H225;  H301; H311; H331;  H370	20-30%
108-88-3	toluene	Xn R48/20-63-65;  Xi R38;  F R11 R67 H225;  H361; H373; H304;  H315; H336	19-26%
1330-20-7	xylene	Xn R20/21;  Xi R38 R10 H226;  H312; H332; H315	7-12%
611-14-3	2-ethyltoluene	R10 H226	1-4%
78-92-2	butanol	Xi R36/37 R10-67 H226;  H319; H335+H336	0-3%

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

### 3 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



T; Toxic

R25: Toxic if swallowed.

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 Xn; Harmful

R40-48-63-65: Limited evidence of a carcinogenic effect. Danger of serious damage to health by prolonged exposure. Possible risk of harm to the unborn child. Harmful: may cause lung damage if swallowed.

 Xi; Irritant

R37/38-41: Irritating to respiratory system and skin. Risk of serious damage to eyes.

 F; Highly flammable

R11: Highly flammable.

R67: Vapours may cause drowsiness and dizziness.

· **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

· **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

· **Label elements**

· **Labelling according to EU guidelines:**

Observe the general safety regulations when handling chemicals.

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

· **Code letter and hazard designation of product:**

T Toxic

F Highly flammable

· **Risk phrases:**

11 Highly flammable.

25 Toxic if swallowed.

37/38 Irritating to respiratory system and skin.

40 Limited evidence of a carcinogenic effect.

41 Risk of serious damage to eyes.

48 Danger of serious damage to health by prolonged exposure.

63 Possible risk of harm to the unborn child.

65 Harmful: may cause lung damage if swallowed.

67 Vapours may cause drowsiness and dizziness.

· **Safety phrases:**

2 Keep out of the reach of children.

7/9 Keep container tightly closed and in a well-ventilated place.

13 Keep away from food, drink and animal feedingstuffs.

16 Keep away from sources of ignition - No smoking.

· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

### 4 First aid measures

· **Description of first aid measures**

· **General information:**

Immediately remove any clothing soiled by the product.

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- In case of irregular breathing or respiratory arrest provide artificial respiration.*
- **After inhalation:** *In case of unconsciousness place patient stably in side position for transportation.*
- **After skin contact:** *Immediately wash with water and soap and rinse thoroughly.*
- **After eye contact:** *Rinse opened eye for several minutes under running water. Then consult a doctor.*
- **After swallowing:** *Do not induce vomiting; call for medical help immediately.*
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** *No further relevant information available.*
- **Indication of any immediate medical attention and special treatment needed**  
*No further relevant information available.*

### 5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
*CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.*
- **For safety reasons unsuitable extinguishing agents:** *Water with full jet*
- **Special hazards arising from the substance or mixture** *No further relevant information available.*
- **Advice for firefighters**
- **Protective equipment:** *No special measures required.*

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
*Wear protective equipment. Keep unprotected persons away.*
- **Environmental precautions:** *Prevent seepage into sewage system, workpits and cellars.*
- **Methods and material for containment and cleaning up:**  
*Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.*
- **Reference to other sections**  
*See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.*

### 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**  
*Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.*
- **Information about fire - and explosion protection:**  
*Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.*
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** *Store in a cool location.*
- **Information about storage in one common storage facility:** *Not required.*
- **Further information about storage conditions:**  
*Keep container tightly sealed.  
Store in cool, dry conditions in well sealed receptacles.*

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· **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

· **Additional information about design of technical facilities:** No further data; see item 7.· **Control parameters**· **Ingredients with limit values that require monitoring at the workplace:****75-09-2 dichloromethane**

OEEL (South Africa)	Short-term value: 780 mg/m <sup>3</sup> , 250 ppm Long-term value: 175 mg/m <sup>3</sup> , 50 ppm
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**71-23-8 propan-1-ol**

OEEL (South Africa)	Short-term value: 625 mg/m <sup>3</sup> , 250 ppm Long-term value: 500 mg/m <sup>3</sup> , 200 ppm Sk
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**67-56-1 methanol**

OEEL (South Africa)	Short-term value: 310 mg/m <sup>3</sup> , 250 ppm Long-term value: 260 mg/m <sup>3</sup> , 200 ppm Sk
IOELV (EU)	260 mg/m <sup>3</sup> , 200 ppm Skin

**108-88-3 toluene**

OEEL (South Africa)	Short-term value: 560 mg/m <sup>3</sup> , 150 ppm Long-term value: 188 mg/m <sup>3</sup> , 50 ppm Sk
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**1330-20-7 xylene**

OEEL (South Africa)	Short-term value: 435 mg/m <sup>3</sup> , 100 ppm Long-term value: 218 mg/m <sup>3</sup> , 50 ppm Sk
IOELV (EU)	Short-term value: 442 mg/m <sup>3</sup> , 100 ppm Long-term value: 221 mg/m <sup>3</sup> , 50 ppm Skin

**78-92-2 butanol**

OEEL (South Africa)	Short-term value: 450 mg/m <sup>3</sup> , 150 ppm Long-term value: 300 mg/m <sup>3</sup> , 100 ppm
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· **Additional information:** The lists valid during the making were used as basis.· **Exposure controls**· **Personal protective equipment:**· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

· **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

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· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Tightly sealed goggles

## 9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

· <b>Form:</b>	Liquid
· <b>Colour:</b>	As per product specification
· <b>Odour:</b>	Characteristic
· <b>Odour threshold:</b>	Not determined.

· **pH-value:** Not determined.

· **Change in condition**

· <b>Melting point/Melting range:</b>	Undetermined.
· <b>Boiling point/Boiling range:</b>	Undetermined.

· **Flash point:** Not applicable.

· **Ignition temperature:** 360°C

· **Decomposition temperature:** Not determined.

· **Self-igniting:** Product is not selfigniting.

· **Danger of explosion:** Explosive when mixed with combustible material.

· **Explosion limits:**

· <b>Lower:</b>	1.2 Vol %
· <b>Upper:</b>	44.0 Vol %

· **Vapour pressure at 20°C:** 453 hPa

· **Density:** Not determined.

· **Relative density** Not determined.

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· <b>Vapour density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with water:</b>	Not miscible or difficult to mix.
· <b>Segregation coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity:</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
· <b>Solvent content:</b>	
<b>Organic solvents:</b>	97.0 %
<b>VOC (EC)</b>	97.00 %
· <b>Other information</b>	No further relevant information available.

### 10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

### 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

· **LD/LC50 values relevant for classification:**

#### 75-09-2 dichloromethane

Oral	LD50	1600 mg/kg (rat)
Inhalative	LC50/4 h	88 mg/l (rat)

#### 67-56-1 methanol

Oral	LD50	5628 mg/kg (rat)
Dermal	LD50	15800 mg/kg (rabbit)

#### 108-88-3 toluene

Oral	LD50	5000 mg/kg (rat)
Dermal	LD50	12124 mg/kg (rabbit)
Inhalative	LC50/4 h	5320 mg/l (mouse)

#### 1330-20-7 xylene

Oral	LD50	4300 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rabbit)

- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Strong irritant with the danger of severe eye injury.
- **Sensitization:** No sensitizing effects known.

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· **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Toxic  
Irritant

## 12 Ecological information

- **Toxicity**
- **Acquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

## 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

- **Maritime transport IMDG:**
- **Marine pollutant:** No
- **Special precautions for user** Not applicable.
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

## 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Labelling according to EU guidelines:**  
Observe the general safety regulations when handling chemicals.  
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.
- **Code letter and hazard designation of product:**  
T Toxic  
F Highly flammable
- **Risk phrases:**  
11 Highly flammable.  
25 Toxic if swallowed.  
37/38 Irritating to respiratory system and skin.  
40 Limited evidence of a carcinogenic effect.

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- 41 Risk of serious damage to eyes.
- 48 Danger of serious damage to health by prolonged exposure.
- 63 Possible risk of harm to the unborn child.
- 65 Harmful: may cause lung damage if swallowed.
- 67 Vapours may cause drowsiness and dizziness.

· **Safety phrases:**

- 2 Keep out of the reach of children.
- 7/9 Keep container tightly closed and in a well-ventilated place.
- 13 Keep away from food, drink and animal feedingstuffs.
- 16 Keep away from sources of ignition - No smoking.

· **National regulations:**

Class	Share in %
I	45.0
NK	52.0

- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H301 Toxic if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H311 Toxic in contact with skin.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H331 Toxic if inhaled.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H351 Suspected of causing cancer.
- H361 Suspected of damaging fertility or the unborn child.
- H370 Causes damage to organs.
- H373 May cause damage to organs through prolonged or repeated exposure.
- R10 Flammable.
- R11 Highly flammable.
- R20/21 Harmful by inhalation and in contact with skin.
- R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
- R36/37 Irritating to eyes and respiratory system.
- R38 Irritating to skin.
- R39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.
- R40 Limited evidence of a carcinogenic effect.
- R41 Risk of serious damage to eyes.
- R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
- R63 Possible risk of harm to the unborn child.
- R65 Harmful: may cause lung damage if swallowed.

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R67            Vapours may cause drowsiness and dizziness.

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**· Department issuing MSDS:**

Wynn`s South Africa  
72 Main Pretoria Road  
Wynberg  
Sandton  
2090

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**· \* Data compared to the previous version altered.**

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